

COOPER LIGHTING - METALUX®

DESCRIPTION

The F-Bay I8 series is an outstanding solution for high mounting height industrial or retail applications. The F-Bay I8 optic has been optimized to provide maximum performance from T8 lamps. Optional uplight component is provided to enable excellent ceiling uniformity. The I8's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Primary applications include "big box" retail, shopping malls, light industrial, school gymnasiums, etc.

SPECIFICATION FEATURES

A ... Construction

Specification grade full body housing, end plates and socket tracks are die formed 20 gauge cold rolled steel in 4' or 8' lengths. The housing features an integral ballast channel that adds strength and provides numerous KOs for easy installation.

B ... Electrical

Class "P" ballasts are positively secured by mounting bolts. Rotorlock Bi-Pin lampholders and optional top ballast access plate enables service from above without disturbing the internal optics. Optional modular power receptacle meets UL2459 and NEC 410.73 and is UL/cUL rated for make and break under load from outside the luminaire to speed maintenance. UL/cUL listed. Suitable for damp locations.

C ... Finish

Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

D ... Downlight/Uplight Optics

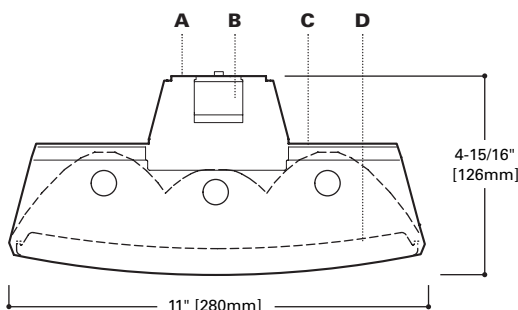
Optical modules are fully enclosed inside housing to protect against damage. Die formed reflectors are faceted for efficiency and control with two optical distributions: medium and wide. Medium beam optical modules utilize 95% specular aluminum finish. Open downlight design optimizes performance with uplight slots available as an option for nominal 8% uplight component. An optional attractive thin blade white baffle adds longitudinal shielding. A clear or frosted white acrylic lens is also available. Optional heavy duty wireguard can be used with or without the lens or baffle. Latched retention of shielding options (safety leader restraints) allow for easy access.

Mounting

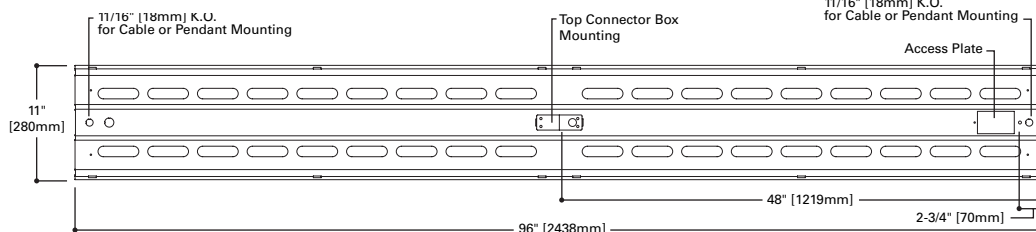
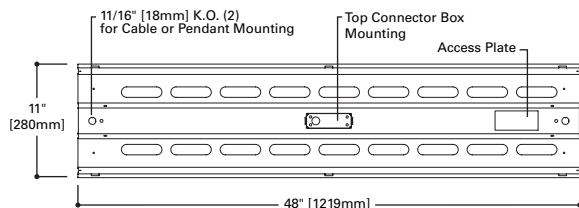
The I8 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

Options

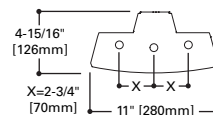
Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.



MOUNTING DATA



LAMP CONFIGURATIONS



F-BAY I8 Series

4' OR 8'
3 LAMPS

Retail/Light Industrial
T8 Linear Fluorescent Hi-Bay
Lighting System



ENERGY DATA

Input Watts:

EB Ballast

332 = 82

8T332 = 167

EB/Plus Ballast

332 = 108

8T332 = 220

ER Ballast

332 = 93

8T332 = 169

ER/Plus Ballast

332 = 120

8T332 = 218

Luminaire Efficacy Rating

LER = 94

Catalog Number: I8-332-UNV-URL

Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$2.54

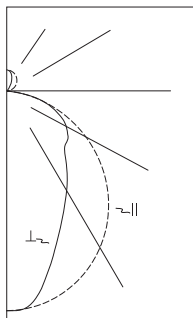
* Reference the lamp/ballast data in the
Technical Section for specific lamp/ballast
requirements

** Consult Pre Sales Technical Support.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING
TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT
Safe and convenient means of
disconnecting power





I8-332-UNV-UPL

Electronic Ballast
F28T8-SP35 Lamps
2750 Lumens

Spacing criterion:
(II) 1.2 x mounting
height, (L) 0.9 x
mounting height

Efficiency 96.2%

Test Report:
I8332UNVUPL.IES

LER = FL-94

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$2.54

Coefficients of Utilization

Effective floor cavity reflectance										20%											
rc	80%				70%				50%				30%				10%				0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	113	113	113	113	110	110	110	110	104	104	104	98	98	98	93	93	93	90			
1	104	99	95	92	100	97	93	90	91	88	86	87	84	82	82	80	79	76			
2	95	87	81	75	91	85	79	74	80	75	71	76	72	69	73	69	66	64			
3	86	77	69	63	84	75	68	62	71	65	60	68	63	59	65	60	57	55			
4	79	68	60	54	77	67	59	53	64	57	52	61	55	51	58	53	49	47			
5	73	61	53	47	71	60	52	46	57	51	45	55	49	44	52	47	43	41			
6	68	56	47	41	66	54	47	41	52	45	40	50	44	39	48	43	38	36			
7	63	51	42	37	61	50	42	36	48	41	36	46	40	35	44	39	34	33			
8	59	46	38	33	57	45	38	33	44	37	32	42	36	32	41	35	31	29			
9	55	43	35	30	54	42	35	30	40	34	29	39	33	29	38	32	28	27			
10	52	40	32	27	50	39	32	27	38	31	27	36	31	26	35	30	26	24			

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2384	28.9	30.0
0-40	3656	44.3	46.1
0-60	5946	72.1	74.9
0-90	7451	90.3	93.9
0-180	7935	96.2	100.0

Candela

Angle	Along II	45°	Across ⊥
0	3547	3547	3547
5	3526	3528	3516
10	3477	3393	3233
15	3394	3104	2822
20	3281	2757	2455
25	3138	2426	2159
30	2967	2149	1921
35	2771	1873	1698
40	2548	1640	1486
45	2305	1415	1317
50	2041	1196	1266
55	1759	1021	1196
60	1465	945	1097
65	1160	842	953
70	853	709	769
75	552	528	581
80	270	334	271
85	51	64	17
90	0	3	1

SHIPPING INFORMATION

Catalog No.	Wt.
I8-332-UNV-UPL	15 lbs.
8TI8-332-UNV-UPL	30 lbs.

ORDERING INFORMATION

SAMPLE NUMBER: 8TI8-332-EB82/PLUS-UPL-U

Length Blank=4' Length 8T=8' Length	Series I8=T8 Industrial	Mounting Arrangement Blank=Stand Alone R=Continuous Row Mount	No. of Lamps 3=3 Lamps	Lamp Type 32=32W T8 (4') Lamps	Distribution Optic Blank=Medium (Specular Aluminum) G=Wide (High Reflectance White)	Shielding Options Blank=Open TBW=Thin White Baffle FL=Frosted Acrylic Lens & Frame ⁽²⁾ CL=Clear Acrylic Lens & Frame ASY= Asymmetric Directional Louver ⁽²⁾ WG=Heavy Duty Wireguard	Voltage⁽¹⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt	Options I8 Lamps Installed L8830=T8 Lamp, 85CRI 3000K L8835=T8 Lamp, 85CRI 3500K L8841=T8 Lamp, 85CRI 4100K L8850=T8 Lamp, 85CRI 5000K GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed ⁽³⁾	Ballast Type T8 Systems EB8 =T8 Electronic Instant Start. ⁽⁴⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8 /PLUS= T8 Electronic Instant Start. ⁽⁴⁾ High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start. ⁽⁴⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 /PLUS= T8 Electronic Program Rapid Start. High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 DIM=Consult Factory ⁽⁵⁾	Options NUA=No Uplight Apertures In Housing (Cannot be combined w/UPL) UPL=Uplight Apertures PI/CPI=Plug-In (1, 2 or 3) (see ordering information) TILW=Tandem Inline Wiring MWS=Modular Wiring System MS=Aisle Coverage Motion Sensor ⁽⁶⁾ MSO=360° Coverage Motion Sensor ⁽⁶⁾ C3=3' Power Cord C6=6' Power Cord MP=Modular Power Receptacle ⁽¹⁾⁽³⁾ PC3=3' Power Cord & Plug (Specify Voltage) TAP=Top Access Plate ⁽⁷⁾ TCBP=Top Connector Box Plate ⁽⁸⁾ Accessories (order separately) TCB=Top Connector Box RH-1=Retrofit Hanger FH-1=Fixture Hook FL-1=Fixture Loop SHK=Hook w/ Safety Screw PC3=3' Power Cord & Plug (Specify Voltage) PC6=6' Power Cord & Plug (Specify Voltage) AYC-CHAIN/SET/U=(2) Hooks, 36" Chain Sets w/S Hooks ⁽⁸⁾ GRIPPLE TOGGLE =Single Toggle, #2 Cable (Specify 10' or 30') GRIPPLE LOOP =Loop Hanger, #2 Cable (Specify 10' or 30') MC6=6' Modular Power Cord MPC6=6' Modular Power Cord & Plug (Specify Voltage) MMS-CPD1200H=Aisle Motion Sensor, Box, Modular Power Receptacle (120/277V) MMS-CPD500H=360° Motion Sensor, Box, Modular Power Receptacle (120/277V) Door Frames (for Field Installation) I8-FRM/LENS PK=Frosted Acrylic Lens & Frame (I8) I8-FRM/CL PK=Clear Acrylic Lens & Frame (I8) WG/I8-4FT-B=Heavy Duty Wireguard (I8) BAFFLE 4FT I8 (White) 11571919=Thin White Blade Baffle (I8) BAFFLE 4FT I8=Thin White Blade Baffle (I8) 90801PPK=Asymmetrical Directional Louver	Packaging U=Unit Pack PAL=Palletized Out of Carton PALC=Palletized In Carton
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NOTES: ⁽¹⁾Requires use of MC_ or MPC_cord accessories, specify voltage for plugs. ⁽²⁾Use with wide distribution optic only. ⁽³⁾Voltage must be specified when ordered with plugs, motion sensors or emergency ballasts. ⁽⁴⁾ER8 and EB8 ballast systems suitable for operation in ambient environments up to 122°F (50°C) in open upright configurations. ⁽⁵⁾Specify voltage. ⁽⁶⁾For use with Top Connector Box options. See accessories. ⁽⁷⁾TAP option available with a maximum of two ballasts, including EM battery pack. ⁽⁸⁾Not for use in gymnasiums or similar recreational facilities. ⁽⁹⁾Dimming ballast must be specified at time of order.

PI OPTION ORDERING INFORMATION

Catalog Number Suffix	Number of Circuits	Circuit Wired To Ballast
PI 1 BLK	1	Black
PI 2 BLU	2	Blue
PI 2 BLK	2	Black
PI 3 RED	3	Red
PI 3 BLU	3	Blue
PI 3 BLK	3	Black

Catalog Numbering System

The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows:

PI-1 = One Circuit - 2 Wires: one black, one white

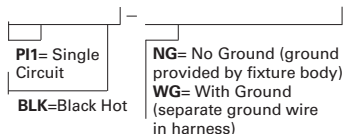
PI-2 = Two Circuits - 3 Wires: one black, one blue, one white

PI-3 = Three Circuits - 4 wires: one black, one blue, one red, one white

When ordering the PI2/PI3 System it is necessary to specify the number of fixtures required for each circuit. Each circuit in fixture must be ordered as a separate line item, with a different hot wire color specified. All wiring to external feeds, using cord or cord & plug, are responsibility of installing licensed contractor. Cord and cord & plug sets must be ordered separately if PI option is chosen.

PI1 - Single Circuit Plug-In

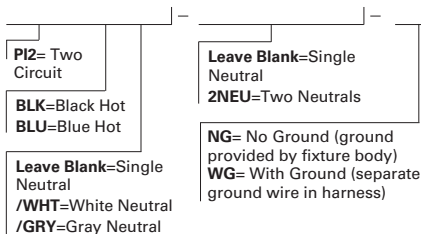
SAMPLE NUMBER: PI1BLK-WG



For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

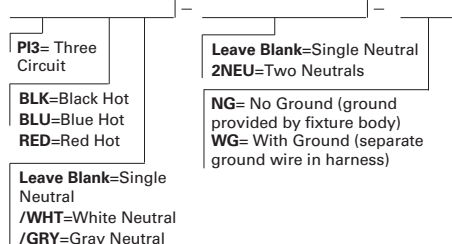
PI2 - Two Circuit Plug-In

SAMPLE NUMBER: PI2BLK-WG



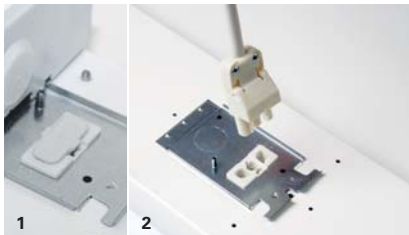
PI3 - Three Circuit Plug-In

SAMPLE NUMBER: PI3BLK-WG



Modular F-Bay Power Supply

Cooper Lighting's F-Bay Modular Power Supply option allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixtures power supply allows servicing without turning off all the fixtures disrupting occupants. F-Bay Modular Power Supply is a time saver in installation – simply plug & power.



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate.
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply.



No internal fixture access required for installation or disconnecting power.



Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle.

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating dustcap